ZETIATM

(EZETIMIBE) TABLETS

ESCRIPTION

ZETA (ezalumibs) is in a chase of lipid-lowering compounds that selectively injuints the intestinal absorption of cholesterol and related physicistosis. The chemical name of assistants in 1-(4-haprophenyl)-3(R)-(2-14-haprophenyl)-3(S)-hydroxypropyl)-4(S)-(4-hydroxypropyl)-2-azejájímonta. The empirical formula is C_xP_x,F,NO_x its molecular weight is 499.4 and its structural formula is:

Examile is a while, crystaline powder that is freely to very satunto in attanol, methanol, end acatone and practically insoluble in water. Examine has a melaing point of about 163°C and is stable at entire temperature. ZETIA is available as a tablet for orel administration containing 10 mg of certimibe and the following inactive ingredients, retroumentations acodum NF, betters monohydrate MF, manyestum stearate MF, microcrystalling cellulous NF, powdone USP, and codum treatment of the MF. lauryi sultata NF.

CLINICAL PHARMACOLOGY

Secignosted Circles studies have demonstrated that elevated levels of total cholesterol (hold-C), low density (hopprotein cholesterol (hold-C), low density (hopprotein cholesterol (hold-C) and apelipoprotein B (Apo B). The major protein constituent of LDL-C) and apelipoprotein cholesterol (MDL-C) are associated with the development of albertocolerolis. Epidemiologic studies have established that actionsecutor morbidity and mortality vary directly with the level of total G and LDL-C and inversely with the level of HDL-C. Like LDL, cholesterol-neithed origine-circ-inch injepproteins, including very-low-dereity (ipoproteins (VLDL), Informediate-density (ipoproteins (IDL), and comments, can also promote attorned rates, The independent sitted of rations (HDL-C or lowering transported (TG) on the risk of commany and cardiovascular morbidity and mortality has not been determined. Afmiliaturation of ZETIA with an HMG-COA radioctals inhibitor is effective in Improving serum total-C, LDL-C, App 8, 3, 16, and HDL-C beyond either treatment alone. The affects of extrinible given situate alone or in addition to an HMG-COA radioctals inhibitor on cardiovascular morbidity and mortality have not been established.

DOTAMARA

Mode of Action

Mode of Action

Extlimible reduces blood cholesterot by inhibiting the absorption of cholesterot by the small intestine. In a 2-words clinical study in 18 bypercholesterolemic poliants, ZETIA inhibited intestinal cholesterol absorption by 54%, compared with piecebo. ZETIA had no clinically meaningful effect on the plasma contentrations of the his-soluble virunities A, D, and E (in a study of 113 patients), and did not impair adversachations absorbed hormone production (in a study of 118 patients). The cholesterol containt of the liver is derived predominantly from three sources. The liver can synthesize cholesterol, take up cholesterol absorbed by the small intestina, lizasianal cholesterols date up cholesterol absorbed by the small intestina, lizasianal cholesterols derived primarily from cholesterol capated in the bits and from distary cholesterol. Eadinible has a mechanism of action that differs from those of other

noni managara (Appara in the same and noni many followed).

Endimibe has a mechanism of action that differs from those of other classes of cholesterol-reducing companies (HMMC-COA reductate inhibitors, bile acid sequestrants [resins], fibric acid derivatives, and

plant strengts).

Examinute does not inhibit choissterol synthesis in the liver, or increase his acid excretion; included, exatinible localizas and appears to act at the brush border of the small intestine and similar the absorption of cholesterol, searing to a decrease in the delivery of intestinal cholesterol to the liver. This causes a reduction of hepatic cholesterol stores and an increase in cheanacts of cholesterol from the blood; his distinct mechanism is complementary to that of HMG-CoA reductase inhibitors (see CLINICAL STUDIES).

Phymiucokinelies

Absorption

After oral administration, exclamble is obserbed and entarishely conjugated to a pharmscolook-city series phenois observiorated (exclarable-gluourished). After a single 10-mg dose of 25 Ta to issted adults, mean cerelinable peak plasma concentrations (C_{ijk}) of 3.4 is 5.5 mp/mt, were attempted within 4 is 12 hours (T_{ijk}). Exclimited focus mean C_{ijk} within 4 is 12 hours (T_{ijk}). There was no substantial deviation from dose proportionally between 6 and 25 mg. The absorbit bionardishibly of abstantible cannot be determined, as the compound is virtually localished in squantum motifs a cultable for inspection. The absorbit bionardishibly in the confliction of variantion, based on inter-subject rariability, was 35 to BD% for ALIC values.

Ferted of Food on Oral Absorption

Concomitant food administration (high fet or non-lat meals) had no effect on the extent of absorption of extension when administrated as ZETIA 10-ng labels. The Co_m value of extension was increased by 36% with consumption of high fat meals, ZETIA can be authinistered with or

ZETIA" (azetimité)

Extrinibe and exalimite-glucuronide are highly bound (>90%) to human plasma proteins.

Metabolism and Excretion

Metabolism and Excretion

Excretion is primarily metabolized in the small intestine and itser via
Electrodiae contestion (a phase if reaction) with subsequent bilisty and
renal exerction. Mirinal existates metabolism (a phase it reaction) has
been observed in all species evaluated.

In humans, exatimible is rapidly metabolized to credinite-glucuronide.

Exection's and exatimible-glucuronide are the major drog-derived
compounds delacted in plasma, constituting approximately 10 to 20%
and 80 to 90% of the total drug in plasma, repactively. Both executives
and exatimible-glucuronides are detailed in plasma, repactively. Both executives
and exatimible-glucuronides are detailed entired in plasma. and so to 30% of the local artig in pleased, specially some controlled and szettnibe glucuroside are sidely eliminated from pleasms with a half-life of approximately 22 hours for both exclinibe and exaltinibe-glucuroride, Pleasms, consenientan-time profiles which multiple peaks.

glucuroride. Plasma comentination-time profiles within multiple peaks, augusting enterorispatilic recycling.
Following and administration of "C-explanible (20 mg) to human subjects, total occulrable (explanible + assitiation-plucoromial) accounted for approximately 35% of the total radioactivity in plasma. After 48 hours, there were no deloctable levels of radioactivity in the plasma. Approximately 75% and 11% of the administratory factoropisty accordingly were recovered in the faces and urine, respectively, ever a 10-day collection period. Explanible was the major component in feets and accounted for 9% of the administrated dose, white explanible-glucuronide was the major component in the faces and accounted for 9% of the administrated dose.

Special Populations

defeater Peterus
In a multiple does study with exedutible given 10 mg cace delly for 10 days, plasma concentrations for local acetimibe were about 2-feld higher in older (265 years) healthy subjects compared to younger subjects.

In a multiple dose study with existinition given 10 mg once deliy for 7 days, the absorption and maksholism of explimition were similar in adolescents (10 to 18 years) and adults: Beased on total exattrible, there are no pharmacoldness differences between adolescents and adults. are no pharmapokinetic differences between adobtspects and adults.

Pharmapokinetic data in the pediatric population <10 years of age are not avallable.

In a multiple dode study with exatimite given 10 mg deck daily for 10 days, plasma consentrations for total exatimite were slightly higher (<20%) in women than in men.

Based on a meta-anelysis of multiple-dose pharmacoldnelic studies, there were no pharmacoldnelic differences between Blacks and Caucasigns. There were too few padents in other racks or attack groups to normit further charmacokinetic comparisons

Hepatic Insufficiance

Hepatic insufficiency
After a single 10-mg does of coalimibe, the mean area under the corve (AUC) for total explimible was knowseld approximately 1.7-food in patients with mide hepatic incumciancy (Child-Pugh score 5 to 6), compared to healthy subjects. The mean AUC values for total explimible were increased approximately 3-4 food and 5-5 hid, respectively, in patients with moderate (Child-Pugh score 7 to 9) or severe hepatic impatremal (Child-Pugh score 10 to 15). In a 14-day, multiple-doce study (10 mg dally) in patients with moderate hepetic increased approximately 4-fold on Day 1 and Day 14 compared to healthy subjects. Due to the unknown dilects of the increased exposure approximately 4-fold on Day 1 and Day 14 compared to healthy subjects. Due to the unknown dilects of the increased exposure to exating the patients with moderate or severe hepatic insufficiency, ZETIA is not recommended to these patients (see CONTRAIMDIGATIONS and PRECAUTIONS, Hepatic Insufficiency).

After a single 10-mg dose of exatimitie in patients with severt renal disease (n=6; mean CrCL < 20 m/Lmin/1-73 m²), into mean AUC values for lotal exatimitie, exatimitie, exatimitie, exatimitie, exatimitie, exatimities of the several compared to healthy authorize (n=9).

approximately 1.5-fold, compared to healthy subjects (n=9).

Drug internations (See also PRECAUTIONS, Drug internations)

ZETIA had no significant effect on a series of probe drugs (carteins, doctrumothorphan, totostamide, and IV midazolam) known to be metabolized by cytochrome PSO (1AZ, 2DG, 20078 and 3A4) in a scockall-study of twelve healthy adult makes. This indicates that establishes in the probe that the problem of the properties of the properties of the properties of the problem of drugs that are enclabellized by these enzymes.

Avairating Concomision administration of assettinible of warfard in an about of the problem of subject of the problem of the

adult melics.

Gessillamedit in a soudy of twelve healthy adult males, concentration appropriate appro

Oral Confineepitives: Co-administration of earlimite (10 mg once daily) with oral contracepitives had no significant effect on the blookalishibly of ethinyl estration or invonorpative in a cludy of eightness healthy adult females

Chreditine: Multiple doses of circeticine (400 mg twice daily) had no significant effect on the oral blookellability of assimibe and total exertimate in a subject of better healthy adults, a single dose of antacid (Supralox** 20 mL) administration had no significant effect on the oral blookellability of total exellimbs, exertimibe—glacatronids, or scotmibe based on AUC values. The C., value of total exellimbs was decreased by 30%.

Exhibit A

7FTIA"(ezetimibe)

Güptzidez lo a siudy of twelve healthy adult maies, stoady-state levels of exclambe (10 mg once faily) had no sienticant effect on the primockinetos and pharmacodynamics of gliptzide. A single stock of gliptzide (10 mg) had no significant effect on the exposure is total assistants or exertinities.

MNG-CoA reduction inhibitions: In studies of healthy hypotrolectaterdamic (LDI-O 2130 mg/dt) adult subjects, concomitant exclusives and adult of the significant effect.

hypotrolesterdamic (LDL-0 2130 mg/dl) adult subjects, concomitant administration of abalimibe (10 mg once daily) had no significant effect on the browshirlity of either lovalidin, strovastain, providellin, strovastain, providellin, strovastain, providellin, successialin, or fitovastain. No significant effect on the bloavellability of both exterioristaint by either lovastatif (20 mg once daily), effects and considerable and exterioristaint (20 mg once daily), effects and considerable (20 mg once daily), effects and considerable (20 mg once daily) administration and once daily) administration in a study of birty-two healthy hypercholesterofethic (LDL-2 2130 mg/dl) adult subjects, concomitant lenofibrate (200 mg once daily) administration increased the mean C_ and AUC values of collections of the confidence were not algorithmaticly affected by exteriorist (10 mg once daily).

Prairing consists of increases were not agrantating symmetric by extended (10 mg once rishly).

Circlestyremines (in a study of long healthy hypercholesterolomic (LDL-C 2130 mg/dt) adult subjects, comcomitant excloselynumbre (4 mg/cc, clay) administration decreased the mean ACC values of total exclimite and excitoribe approximatory SS% and 80% respectively.

ANIMAL PHARMACOLOGY

ANIMAL PHARMACOLOGY

The hypocholasterolamic effect of existinitie was exclusived in cholestro-fee Rhesus monitors, degs, into, and mouse models of human chrotesterol melabolism. Esalimbe was found to have an ED—water of 0.5 purkfulsy for inhibiting the ries in pleame sholestrol begins in monitors. The EO—values in dogs, rate, and mice were 7, 30, and 700 µg/kg/day, respectively. These results are consistent with ZETIA being a potent choic strong about the factor of absorption highlibr.

In a rat model, where the gladuronide metabolite of explimite (SC663) was administend phraducidensity, the metabolite was as potent as the parent compound (SCH 68235) in inhibiting the absorption of chotesland, suggesting that the glacuronide metabolite had activity similar to the parent compound (SCH 68235) in inhibiting the absorption of chotesland, suggesting that the glacuronide metabolite had activity similar to the parent compound (SCH 68235) in inhibiting the absorption of chotesland, suggesting that the glacuronide metabolite had activity similar to the parent drove.

circle-land, suggesting that the glocuronide metabolita had activity aimiliar to the parind drug. In 1-month studies in dogs given exercise (0.03-300 mg/kg/sty), the concontration of chelesterol in galibleddar his increased -2- to 4-fock. However, a dose of 300 mg/kg/sty administrated to dogs for one year did not result by galistone formation or any other advance hepatobiliary effects. In a 14-day study in mice given examine (0.03-80) and feet allow-lat or chelestropisch det, the concentration of cholesterol in gabilitation by the mice given examine (0.03-80) and feet allow-lat or cholestropisch det, the concentration of cholesterol in gabilitation by the was either unaffected or reduced to normal levels, respectively.

A series of source precipical studies was performed to determine the selectivity of ZETIA for inhibiting cholesterol absorption. Emilmbe childhibed the absorption of C14 cholesterol with so effect on the obsorption of C14 cholesterol with so effect on the obsorption of brighterials a limit 0.

In 4-to 12-week hootichy studies in mice, available old not induce

estrators, or one rateouther vitamine A and D.

In 4- to 12-week backety studies in mice, exelented did not induce cytochrome P450 drug metabolizing enzymes. In toxicity studies, a pharmacoidnetic interaction of explanate with PMIG-CoA reductace inhibitions (parants or their active hydroxy acid metabolities) was seen in rate, dogs, and rabbits.

CUMPON STUDIES

imary Mypercholesseroidemia ZETIA roduces india I, LDL-G, Apo B, and TG, and Increases HDL-C padenta with hypercholesteroitemia. Maximal to near maximal sponse is generally schloved within 2 weeks and maintained during maintained.

response is generally accommended by the hopercholesterolerms, in men and women, in younger and older patients, alone or administrated with an HMG-CoA reductase inhibitor. Experience in pediatric and adolescent patients (agos 8 to 17) had been limited to patients with homozygous familial hypercholesterolemia (HoFH) or streamership. Beginners in pro-Causacture is limited and does not parmit a stream of the selection of ZETIA.

Experience in non-Caucastans is limited and does precise estimate of the magnitude of the effects of ZETIA.

Manadoragy
in Iwo, multicenter, double-blad, placebo-controlled, 12-week,
studies in 1719 patients with primary hypercholest-relemia,
ZETAs significantly lowered total-C, LDI-C, Apo B, and Tô, and
increased PID-C compared to placebo (see Table 1). Reduction in LDI-O
was consistent across age, ask, and bescing LDI-C.

Rubperte in ZETIA to Pullante with Primary Rypurc (Mant' % Charge from Universed Reseller)

| | Treatment group | Ħ | Tutal+C | LDC-C | Apr II | 16" | HDC-C |
|---------------|--------------------|------------|---------|-------|--------|-----|-------|
| | Placebe | 205 | 41 | 47 | -1 | -1 | -1 |
| Study T | Ezeumide | DE2 | -12 | -10 | -15 | -7 | -1 |
| Study 2" | Placebo | 226 | +1 | +7 | -1 | +2 | -2 |
| | Em Irote | GES | -17 | -10 | -16 | -4 | +1 |
| Pooled Doby | Pacebo | 401 | 0 | +1 | ÷_ | 0 | -2 |
| (3년 회는 1 & 2) | Eza Groiba | 1288 | -13 | -10 | -18 | -6 | +1 |

'fer riefearden, wurden S. stempe byer paletiet 'Sasafon - de en Spil-touring drug 'NYTM styriftseelly returnel back S. (D.L.-C. Add B., and B., and the

Combination with HMG-CoA Reductics Inhibitors

ZETIA Added to Ch-golog HBRS-CoA Reductors Inhibitor Therapy
in a multicenter, double-blind, placopo-controlled, 8-week study, 769
patients with primary hypotrohospictolomia, known cotonary haratt
disease or multiplie certifyosecular risk factors who were already
recepting HMS-CoA reductors inhibitor requestments, but who had not
most their NCEP ATP II target LDL-G goal were randomized to receive

ZETUA" (ezerimibe)

aither ZETIA or placebo in addition to their on-going HMG-CaA reductase

allular Z (Not of peculiar that allular and the action of the large, action of the large, ZETIA, action to on-going HMG-CoA reductase inhibitor therapy. Significantly lowered total-0, LDL-C, Age 8, and TG, and increased MOL-C compared with an HMG-CoA reductase inhibitor administrated alone see Table 2). LDL-C adductates Induced by ZETIA were generally conductant seroes all HMG-CoA reductases Inhibitors.

Teble 2 Hetparme in Addition at ZETLE in One-pubsy 1995, CoA Reductors Labitation Tamopy') a Paliants with Hyperministericionish (Mezar' % Change brief Yebbled Sessiller')

| Tjankmeril (Dally Dass) | M | Total-C | LDL-C | Apo b | TE | MOLAE |
|--|-----|---------|-------|-------|-----|-------|
| On-going HMO-CoA reductase inhibiter +Plecabo* | 390 | -2 | 4 | - 4 | 8 | +1 |
| On-guing HMH-CDA reductase inhibitor +ZETIA* | 379 | -17 | -25 | -19 | -14 | +3 |

en marks, LOL-C, App F, and TE, and he

ZETIA Initiated Concurrently with an HMG-CoA Reductase Inhibitor

In four, multicenter, double-black, placabo-controlled, 12-work trals, in 2882 hyperchilestrollemic patients, ZETIA or placabo was administered atone or with various doses of abovesable, aimvastalin, prayactation, or local labin.

pravactors, or localistan. When all patients receiving ZETIA with an HMG-CpA reductate inhibitor were congrared to all those recolving the corresponding HMG-CpA reductace inhibitor atone, ZETIA significently located total-C, LNC, Apo B, and TG, and, with the exception of prevastatin, increased HDL-C campand to the HMG-CpA reductace inhibitor administrated above, LPL-C reductions induced by ZETIA were generally constatent across all HMG-CpA reductace inhibitors. (See footnote c, Tables 3 to 6.)

Table 3 Economic to 22714 and Abertudolfs Initialed Conser-te Pallants with Primary Hypercholesterolomic (Meyer' '& Change from Suircoind Buseitor')

| Treatment (Delty Cose) | H | Total-C | L bL-€ | Apro B | TG | HDL-C |
|---|-----|---------|---------------|--------|-------------|-----------|
| Placebo | 60 | +4 | # | +3 | -6 | 4 |
| ZETIA | 65 | -14 | -20 | -15 | -5 | 44 |
| Atorvastatin TO rog | 60 | -26 | -37 | -28 | •Z1 | +6 |
| CETIA + Atomastatiln 10 mg | 55 | -33 | -50 | -43 | -3 1 | 49 |
| Atomas talin 20 mg | 60 | -30 | -42 | 4 | -23 | _4 |
| ZETIA + Allorya madin 20 mg | þŞ | -39 | -54 | 44 | -30 | +8 |
| Апогиненна 40 mg | SG | -82 | -45 | -27 | -24 | +1 |
| ZETIA + Alprastalio 40 mg | 55 | -42 | -56 | -45 | -24 | 45 |
| Albertastatile 90 Rtg | 62 | -40 | -54 | -46 | -31 | *1 |
| ZETTA + Pastronotarin 40 mg | N | -46 | -61 | -50 | -40 | +7 |
| Popled data (All Altervisitatio Doses)* | 249 | -32 | -44 | -36 | -14 | 44 |
| Peoles dala (Ali ZETIA + Altorvastella Doess)* | 255 | -11 | -# | -45 | -83 | +7 |

nicken, marking to citation from Deposition

n – mar na finish kimuming di rep na manana ni marana kalin prodesi (10-80 mg) sibinikarahi makepsi (adapte, LD)-C, Ayo B, ord TB, mdi nai HBU-C biningalmal to hii tustas ni abboestada pooled (16-80 mg).

Management to 25 Tip and Stravenestic Indicated Concernating in Painnik with Pricency Hyperchéléssetélésik (Maon' M. Change, Irom Universitat Basalica')

| (Culty Date) | N | TwinI-C | LBL-¢ | Apo B | TC | HOL-C |
|--|------------|---------|-------|-------|-----|-------|
| Placellé | 70 | •1 | -1 | 0 | 12 | »f |
| ZETIA | ព | -13 | -18 | -14 | -11 | +6 |
| Spovastalia IO mg | 70 | -18 | -27 | -21 | -14 | +1 |
| ZETIA+ Sinvactalin 10 mg | 67 | -32 | -16 | -35 | -26 | +5 |
| Siranastriin 20 mg | B1 | -26 | -35 | -29 | -18 | 45 |
| ZE (IA+ Simvas ladin 20 mig | 69 | -33 | -46 | -36 | -25 | +5 |
| Simvestalin 40 mg | 65 | -27 | -36 | -\$2 | -24 | 4 |
| ZETIA+ Singvertalin 40 mg | 73 | -10 | -56 | -45 | -85 | +11 |
| Shaver build at me | 67 | -32 | -45 | -37 | -23 | +1 |
| Service and mg | 6 5 | -41 | -51 | -47 | -31 | 4 |
| Penaled data (All Sierwaylania Desas (* | 269 | -26 | -36 | -30 | -20 | -17 |
| Pooled data (All ZETIA & Blanksstatin Doses)* | 274 | 45.7 | -51 | -41 | -29 | +9 |

"Basales – on no hydricum/ny drag "BCTA, v sti Azeri et retresporte popise (10-10) maj pienticumie antocon' to berrennel (101-2 agrecarus es al douga pi plumppide popise (10-60 mg). of bank C LDC-C Arm St. and Tic. and ZETIA*(uzesimite)

se to ZETIA and Pray solutio lettiated Concervally In Pallents with Printing Myperel (Moon' % Charge from Universital Described)

| Treatment (Date) | al | Total-0 | | Apro 8 | TE | HDL |
|---|-----|---------|------------|--------|-----|-----------|
| Placebo | 96 | , 0 | _1_ | -2 | 4 | -2 |
| ZETIA | 64 | 12 | -20 | -15 | -5 | #4 |
| Provastalin 10 mg | 66 | 1-15 | -£1 | -16 | -14 | 45 |
| ZETIA • Pravastalia 10 mg | 71 | -24 | -84 | -27 | -23 | 4 |
| Pre-esseria 20 mg | G.S | 115 | -21 | -38 | _1_ | 78 |
| ZETIA I Proveskoja 20 pag | 66 | -27 | 40 | -31 | -21 | -8 |
| Preventatin 40 rog | 70 | -22 | -3H | -20 | -10 | +6 |
| ZETIA + Pravestziin 40 mg | ₽7 | 30 | -42 | -22 | -27 | +8 |
| Pooleni data (Ali Pravastanin Deses)* | 205 | :-17 | 45 | -20 | -14 | -7 |
| Province data (All ZETIA - Provincialis Document | 204 | -27 | -39 | -30 | -21 | +1 |

della acceptat (TD-40 Ma) miss

pones in ZESIA and Lavorinité initiales Greenveoity Ja Patients with Primary hypercal determinate Milesof % Change from Untracted Ba

| Transmust (Cally Dess) | þ | Total-G | 101-¢ | Apr 5 | TO | HOLE |
|---|-----------|---------|-------------|-------|-----|------|
| Placebo | 64 | +1 | 0 | +1 | -5 | 0 |
| ZETIA | 72 | 1, -18 | -19 | -14 | -5 | +8 |
| Lovasta (in 10 mg | 73 | 11-15 | -20 | -17 | •11 | +5 |
| ZETIA + Lovastada 10 mg | G8 | 24 | -\$4 | -27 | -19 | 71 |
| Lovestetin 20 mg | 74 | : -10 | -79 | -21 | -12 | -13 |
| ŽĚTIA + Lovastadn 20 mg | 62 | -25 | ⊸ 11 | -34 | -97 | +9 |
| Lovaurain 40 mg | 73 | 1 21 | -30 | -25 | -\5 | 75 |
| ZETIA - Lo-estada 40 mg | 65 | -93 | 46 | -28 | -27 | +8 |
| Project data (A8 Lovestelle Detec)* | 220 | 11-11 | -25 | -21 | -12 | н |
| Pooled data (All ZETIA + Lovastaun Deses)* | 192 | -23 | -10 | -31 | -15 | +0 |

Feyr briggegefeles, wentum 'is charge throe homelian Flavoritor - on the Beth-Horsefee free EZETA - oil of counts of the Matter points (TO-mp perp sign) Nicerely probated beth-C. L.O.-C., Apro D., and ITS, and Bornard ATD.-C. obtigated to 16 00008 of 10 455960 profess (12-40 mp).

Homozygous Familial Hypercholesthrolenile (Hofff)

A study was conducted to isstess the efficacy of ZETIA in the treatment of Hofff. This double-blind, readontized, 12-week thuly enrolled 50 patients with a official analyr pamolysic diagnosts of Hoff, without concombant; LDL, aphetesia, arisedy receiving atemassistin or simmassistin (40 mg). Patients were randomized to one of three treatment groups, aboressialin or simmassistin (80 mg). ZETIA admiristered with abovestatin or simmassistin (40 mg), or ZETIA admiristered with abovestatin in simmassistin (40 mg). Due to decreased beavailability of excitingles in patients concomisantly receiving cholestyramine (see PRECAUTIONS), exadinglise was dosed at least 4 hours before or after admiristrations of radins. Mean baseline LDL-C was 341 mg/dL in these patients randomized to allowed sold of 15 mg/dL in the group randomized to allowed the sold of 15 mg/dL in the group randomized to 25TIA plus abovestatin 40 of 80 mg or simmastatin (40 and 80 mg are simmassistin 40 of 80 mg or 35TIA plus above at simmassistin 15 LDL-C 217A) compared with increasing the dose of simmassistin or alternation monotherapy from 40 to 80 mg (7%). In those treated with 25TIA plus 30 mg atomassistin or with 25TIA plus 30 mg atomassistin or with 25TIA plus 30 mg patients at the conception of 15 mg/dL plus 30 mg atomassistin 150L-C was reduced by 27%.

to 80 mg (7%), in those treated with ZETIA pite 80 mg abovestatin or with ZETIA pite 80 mg abovestatin, IDA-C was reduced by 27%.
Homozygous Silveterolomia (Phytopaerolomia)

A shely was conducted to insense the efficacy of ZETIA in the treatment of fibrozygous Silveterolomia. In this matricenter, double-being placets silveterolomia. In this matricenter, double-being placets silveterolomia with elevated placets silveterolomy with fibrozygous Silveterolomia with elevated placets silveterolomy with fibrozygous regiment (eller, bite-acid-binding trains, Historica, reductive: hibbliors, that bypass; surgery and/or LDL apheroids), were randemired to insolve ZETIA (n-30) or placebo (n=7). Our in decreased bloavailability of erwirethe in putients concombarily receiving characteristic section of the second placeto (n=7). Our in decreased bloavailability of erwirethe in putients concombarily receiving thous before or 4 hours after resins were administrated. Secturing the one subject receiving the one subject receiving by the second placetor of the second placetor and campositerol, by 21% and 24% from besidine, respectively. In contrast, patients when received with ZETIA, mean plasma levels of plant stands were reduced promassively ever the course (of the study. The diffects of reducing plasma altostated and campositerol on reducing the nicks of cardiovascular mortifiely and mortality have not been astabilished. Productions in situaterol and (campositerol were consistent) everes pedents intima ZETIA compositantly with bits acid adquestrants (n=2).

ZETIA" (ezedmibe)

INDICATIONS AND USAGE

Primary Hypercholes/erolestia

ZETIA, administrated plane is inclinated as adjunctive therapy to dist for the reduction of elevated total-C, LDL-C, and Apo B in patients with privacy (heterozygous Barnillai and non-familia) hypercholesterolemia.

Combination therapy with MIGC-COA reductate inhibitors

ZETIA, administered in combination with an HMG-CoA reductate inhibitors

ZETIA, administered in combination with an HMG-CoA reductate inhibitor, is indicated as adjunctive through the first the resuction of elevated (abt-IC, LDI-C, and Apo B in patients with primary (hotarozygous termiful and non-familiar) hypercholeatoroisma.

The combination of ZETIA and abovestain (hoPI)
The combination of ZETIA and abovestain or streestain, is indicated for the reduction of elevated total-0 and LDU-0 tevels in patients with hoPI, as an adjunct to other file-towering treatments (e.g., LOU apherests) or if such treatments are unavailable.

apherests) or it such breatmants are unavailable.

Homogous Situaterolemia
ZETIA is indicated as adjunctive therapy to diet for the reduction of elevated sixesterol and earnpesterol lovels in patients with homozygous hankled sixesterolemia.

Thomogy with lipid-oltering agents should be a component of multiple risk-tactor intervention in Individuals as increased risk for afforced created are according to hypertholesterolemia. Lipid-infloring agents should be used in addition to an appropriate dies (incleating restriction accurated felt and cholesterol) and when the response to diet and other non-pharmacological intestures has been inadequate. (Soo NCEP Adult Treatment Panel (ATP) III Galdelines, summarized in Table 7.)

Tphie 7 Summary of NCCP ATP III Goldelines

| Plais Cologicy | (ing/dL) | LBL j. wet at Which to lability Thurspeath: Literapie Changer ^a (mg/st.) | LDL Served at Whiteh to Counsider Breat Therapy (ang/st.) |
|--|-------------|---|--|
| CHO or CHO risk equivalents ^b (10-year risk >2014) ⁰ | <100 | 2103 | 2130 {100-125: drug optioas/) ^d |
| E+ Rosk Austors ^E (10-year risk \$2074) ^C | -130 | 2130 | 10-year risk 10-20%; 2130° 10-year risk <10 %; 2150° |
| O-1 Filials lacebor ⁶ | <160 | ±150 | 2190 (160-189: LDL-lawering drag aptionall) |

"Burreymain: Burshyle strong or hards (m. 1) fishary shinapase reduced brails of transpilled (bit (47%); calcided (in all debilityres) (1288) for your first, year shrowing (ii), terminally main, plant channels believed in the control followly flow (1055) engl. 3 maying a continuous or desidence and 3 financial polystand (1056). The property of the control follows is burriers that control is the control of the control of the property of the control for the control of the control of

Felgenschie and FOL, auß. Hottoms war ar hand to be the submitted of the Line and Li

Prior to initiating therapy with ZETA, secondary causes for dystipidents (i.e., diabetes, hypothyroidism, obstitucitive liver disease, chronic renal iditure, and drugs that increase LDL-G and decrease HDL-C [properties, anabetic steroids, and corries should be gertermed to measure total-C, LDL-G, HDL-C and TG. For T6 levels >400 mg/dt. (>4.5 mmod/L), LDL-C concentations should be determined by ultracertiflegation. At the time of hospitalization for an acuse coronary event, ligid measures should be taken on adattsion or within 24 hours. These values can geldo the physician on initiation of LDL-towering tharapy before or at discharge.

CONTRACHDICATIONS

CONTRAMBACATIONS

Hypersensitivity to any component of this medication.
The combination of 25TM, with an HMG-COA reductase legislator is contraindicated in patients with active liver disease or unexplained peralitant objections to serum transacraticases.

All EMG-TOA reductase injulphors are contraindicated in progness and serving seemes, where ZeTIA is admirationabled in progness and serving seemes, where ZeTIA is admirationabled in MMG-COA reductase injulphorance potential, rules to the prognessory category and product labeling for the FMMG-COA reductase inhibitor, (See PRECAUTIONS, Prognamey.)

PRECAUTIONS

Concurrent administration of ZETIA with a specific HMG-CoA reductors with the product labeling for that HMG-CoA reductors inhibitor.

Liver Enginees in controlled clinical monotherapy studies, the incidence of consequitive elevations (25 X the upper limit of neumal (ULNI) in serum transaminates was similar between ZETIA (UNX) and placebo (0.3%). In controlled clinical combination studies of ZETIA initiated consumently with an HMG-CoA reductase inhibitor, the incidence of consequence elevations (2.3 X ULN) in serum transaminates with 1.3 X UNX in serum transaminates.

ZETIA" (ezeilmibe)

inhibitors and 0.4% for patients treated with HMG-GoA reductace inhibitors alone. These elevations in transminases were generally asymptomatic, not associated with cholostasis, and returned to baseline after disconlineation of therapy or with conflued realment. When ZETA is operationalisted with an HMG-CoA reductase inhibitor, fiver function lists should be performed at initiation of therapy and according to the economic of the HMG-CoA reductase labilities.

Skeletal Muscle

SHAMON AMPRICA.

In clinical trials, there was no excess of myopathly or rhabdomyolysis associated with 2ETIA compared with the relevant control arm (plazebo or HMG-CoA naturclase inhibitor alone). However, myopathly and rhabdomyolysis are known adverse reactions to HMG-CoA reductase inhibitors and other byti-knowning drugs, in clinical trials, the incidence of CPK-10 X ULN was 0.2% for ZETIA vs 0.1% for plazebo, and 0.1% for zETIA co-admissional with an HMG-CoA reductase inhibitor vs 0.4% for VETIA co-admissional with an HMG-CoA reductase inhibitor vs 0.4% for VETIA co-admissional with an HMG-CoA reductase inhibitor vs 0.4% for VETIA co-admissional vs for HMG-CoA reductase inhibitors alone.

Hopetia lasettislance

Due to the enterone effects of the increased exposure to exclaim in pallents with moderate or severe hopatic insufficiency, ZETIA is not recommended in these pallence. (See CLINICAL PHARMADOLOGY.

Drug Interactions (See also CLINICAL PHARMACOLOGY, Drug

Interactions.)

Interactions: Concernitant cholselyramine administration decreased the mean AUC of total exalimite approximately 55%. The incremental LDL-G reduction due to adding exalimits to cholselyramine may be reduced by this interaction.

Figurater: The stately and effectiveness of exalimits administered with interaction and hose exhibitions.

thrates have not been established.

thrates have not been crabilished.

Brates may increase relacisterol excretion into the bits, loading to chololithists. In a practical study to dogs, scalinition increased cholostrol in the gatilisation bits (soo ANIMAL PHARMADOLOGY). Conditionally administration of ZETM with tibrates is not recommended until use in patients is studied.

FanoRizator in a pharmacokinetic study, concomitant tenoliticals seminteration increased coal examinite concentrations approximately 1.5-fuld.

Genfibrozit in a phyrmacokineto study, concomitant genfibro

administration increased total expiritive concentrations approximately 1.7-total.

1.7-total.

http://coa.neductose inhibitors: No clinically significant pharmacolinetic interactions were seen when spatimite was co-administered with atomatetalin, significant administered with atomatetalin, significant atomatetalin, lowastatic, or approximately accomplished with atomatetalin, significant atomatetalin, lowastatic, or approximately accomplished with atomatetalin, significant atomatetalin, significant atomatetalin, significant atomatetalin, lowastatic, or approximately accomplished atomatetalin.

Dyclosporine: The total exetimibe level increased 12-fold in one renal transplant patient receiving multiple medications, including cyclosporine. Podents who take both could be and cyclosporine should be carefully

Carcinogenesis, Mutaganesis, Impalment of Farility

A 104-week distary cardinogaristy study with estimate was enducted in rats at doese up to 1500 mg/kg/day (males) and 500 mg/kg/day (females) (-20 thres the human exposure at 10 mg daily based on Allo-sel for total extendible). A 104-week distary cardinogaristy study with exadinities was also conducted in mich at doese up to 500 mg/kg/day (-150 times the human exposure at 10 mg daily based on Allo-sel for total extendible). There were no statistically significant increases in tumor incidences in drug-treated rate or mica.

No evidence of mutaganicity was observed in vitro in a microbial mutaganicity (amas) test with Salmonets hyphimarium and Eschwischia coli with or without metabolic activation. No evidence of classingenicity was observed in vitro in a chromosemant abstration assay in human parilibion, there was no evidence of genelosicity in the in wiso mouse microtuscum tent.

southon, many was no evidence or generocastly in this in who includes increducibles that it is not on the first in crail (gaseage) farifility studies of excitmible conducted in rate, flore in crail (gaseage) farifility studies of excitmible conductive tododity of doses up to 1000 mg/kg/day in make or ternale rate 1-7 times the human exposure at 10 mg daily beaud on AUC_{Nee} for total southerible).

Prepriatory Category: C
There are no adequals and wed-controlled studies of exchange in programs women. Exadenible should be used during programs young if the polential benefit (postilies the risk to the foun.

potential bornetti jostifies the risk to the fetus.

In oral (garappi) ornizayo-fetal development studies of ezvormibe conducate in rule and rabbits during organogenests, there was no widence of embayolethal safects at the doses tested (250, 500, 1000 mg/rg/day), in rast, tacreased incidences of common fest stellated intellings (extra pair of terractic risk, unessitiad cervical variotizal centra, shortened mitta) were observed at 1000 mg/rg/day (-10 times line human exposure at 10 mg daily based on AUC, page for loste settimbes). In rabbits trusted with estimiba, an increased incidence of extra thoractic ribt was observed at 1000 mg/rg/day (150 lines the human exposure at 10 mg daily based on AUC, page for the settimbes). Estimible crossed like placests when pregnant rate and rabbits were given multiple oral doses. Matibile dose studies of sextimibe given in combination with

Maritiple dose studies of szetimibe given in combination with HMG-GGA reductase inhibitors (statins) in rata and rabible during organogeneas result in higher cellumbe and stable exposures. Reproductive findings occur in lower dates in combination therapy

reproductive intuiting octain is over leasts in destandable versely.

All HMG-CoA mediclases tabilitions are curtiral processed in pregnant and mursting woman. When ZETM is administrately with an HMG-CoA reductate inhibitur is a woman of childboaring potential, refer to the Presencery calegory and package labeling for the HMG-CoA reductate inhibitor. (See CONTRANDICATIONS.)

'solor and Dethery
The effects of ZETIA on Islan and delivery to program women are unknown.

Nursing Mothers

In at studies, exposure to total explimite in oursing pupe was up to half of that observed to maternal plasma. It is not known whether examine is excreted into human breast milk; therefore, ZETLA should not

ZETIAT (szelimibe)

be used in nursing mothers unless the potential benefit justifies the potential risk to the intent. Pediatric Use

Paddaris Use
The pharmacolonetics of ZETIA in adolescents (10 to 18 years) have been shaken to be similar to that in adults. Trushment appendence with ZETIA in the pediatric population is limited to 4 patients (9 to 17 years) in the stockstrolonia study and 9 patients (11 to 17 years) to the HOFH study. Trushment with ZETIA in children (410 years) is not recommended, (See CLENICAL PHARMACOLDEY, Special Populations.)

Boriante Use

Of the patients who received ZETIA in clinical studies, 948 were 65
and older (this included 200 who were 75 and older). The offectiveness
and safety of ZETIA were striker increases these patients and younger
subjects. Greater sensitivity of some older individuals cannot be ruled
out. (See CLINICAL PHARMADOLUCY, Special Populations, and
ADVERSE REACTIONS.)

ADVERSE REACTIONS

AUTENSC MEAN-TIONS
ZETIA has been evaluated for safety in more than 4700 patients in clinical tribs. Candeal studies of ZETIA (administrated alone or with an HMG-GDA roductace inhibitory demonstrated that ZETIA was generally well bolineled. The overall incidence of adverse cands reported with ZETIA was similar to that reported with albeido, and the discontinuation rate due to adverse events was also primiter for ZETIA and placebo.

Adverse experiences reported in 22% of patients treated with ZETIA and at an invidence greater than placebo in placebo-controlled studies of ZETIA, regardiest of coatsoliny assessment, are shown in Table 8.

Thing at Citylesi Advance Session Generating in 25% of Polision Treated with 25TLA and pl an Incidence descior than Playaba: Routeliess of Cause Bly

| Soay Symen/Organ Chas Advance Event | Placebo (%) 1. = 795 | ZETJA 10 mg (%) p = 1881 |
|--|----------------------------|--------------------------------|
| Body as a winds - populai disordera | | n |
| Felicus | 1.3 | 2.2 |
| Gustro-laustinal pyetem deorgers | • | |
| Abdemiral rate | 2.8 | 5,0 |
| Diarries | 3.0 | 3.7 |
| Infection and Infections | | |
| Intaction viral | 1.0 | 2.2 |
| Pharyngills. | 2.1 | 2.2 |
| Sinvalde | 2.1 | 2.6 |
| Muscula-sketetal aystem distributs | | |
| Arteralgia | 5,4 | 3.1 |
| Back pain | 3.0 | 4.1 |
| Respiratory system disorders | | |
| Coughing | 2.1 | 2.3 |

Includes pulsaris hater received phase to or ZETLA signs expectant in fability.

The frequency of less sometion adverse events was comparable between ZETIA and placebo.

Continuation with an HMG-Can reduce the Inhibitor
ZETIA has been evaluated for safety in combination studies in more
than 2000 patients.

In general, adverse experiences were similar between ZETIA
administered with HMG-DoA reductars inhibitors and PMIG-Can
reductars inhibitors store. However, the Inquency of Increase
transaminister was slightly higher in patients recoding ZETIA
administered with HMG-DoA reductate inhibitors than in patients readed
with HMG-DoA reductate inhibitors atone. (See PMG-CAUTIONS, Liver

Enzymes.)

Clinical adverse apperiences reported in 22% of patients and at an incidence greater than piecebo in four placebo-controlled trials where ZETIA was administered atone or initiated concurrently with various HMG-CoA inductions inhibition, regardless of careality assessment are shown in Table 9.

Table 9"
Clinical Advance Extends occupying in 24% of Patients and at an incidence Grantes
them Placebo, Regardens of Caronting, in 25TM/Stalls, Considering Strikle

| Booy System/Degus Class Advecto Erekt | Placebe (%) n=259 | 25TIA 10 mg (%) p=2122 | All Statins ** (%) p-928 | ZETIA 6 All Statins** (%) n=025 |
|---------------------------------------|-------------------------|---------------------------------|-----------------------------------|---|
| Scory as a whole - process discorders | | | | |
| Chest pale | 1.2 | 3.4 | 2.0 | 1,0 |
| Dizziness | 12 | 2.7 | 1,4 | 1.5 |
| Fallgue | 1.5 | 1.0 | 1,4 | 2.8 |
| Handacka | 6.4 | 8.9 | 7.3 | 8.3 |
| 615tro-lates final system distributs | | | | |
| Abdominal attin | 2.9 | 2.7 | 3,1 | 2.5 |
| Diagraes | 1.5 | 3.4 | 2.0 | 2.8 |
| injuration and Infustritions | | | | |
| Phyryne bis | 1.9 | 3.1 | 2.5 | 23 |
| Shumin | 1.0 | 4.6 | 3.5 | 3.5 |
| Upper ses phatony tract telection | 10.8 | 13.0 | 15.6 | 11.8 |
| Murcula-skeletal system disorders | | | | |
| Aritwaicia | 2.3 | 3.5 | 4.3 | 3.4 |
| Back pain | 3.6 | 14 | 3.7 | 4.3 |
| 10/styte | 4.6 | 10 | 4.1 | 4.5 |

ZETIA" (ezetimibe)

Overhooses: of overdosage with ZETIA have been reported. Administration of continues, 50 montay, 10 15 subjects for up to 14 days was generally well tolerated, in the event of an overdose, symptomatic and supportive missures should be employed.

DOSAGE AND ADMINISTRATION

The patient should be placed on a standard cholesterol-lowering dist before receiving ZETIA and should continue on this diet during treatment

The recommended dose of ZETIA is 10 mg ence daily. ZETIA can be

aministrated with or without bod.

ZETM may be administrated with an HMG-CoA reduction inhibitor for incremental effect, for convenience, the daily dose of ZETM may be administrated with an HMG-CoA reduction inhibitor, according to the dosing recommendations for the HMG-CoA reduction inhibitor, according to the dosing recommendations for the HMG-CoA reduction.

Patients with Hepatic Insufficiency
No docage adjustment is accessary in patients with mild hapatic insufficiency (see PRECAUTIONS, Hepatic Insufficiency).

Patients with Head Insufficiency
No disage adjustment is recovery in patients with renal insufficiency (see
CURREAL PRANMACOLOGY, Special Providence).

Geristric Patients

No docage adjustment is necessary in geriante patients (see CLINICAL PHARMACOLDEY, Special Populations).

Co-administration with Bite Acid Sequestrants
Co-administration with Bite Acid Sequestrants
Co-administration of a bite acid sequestrant (ase PRECAUTIONS, Drug Interactions).

HOW SUPPLIED

No. 3881 - Tablets ZETIA. 10 mg, are white to off-white, capsulo-shaped tablets debossed with "414" on one side. They are supplied as follows:

NDC 56582-414-91 horities of 30

NDC 86582-414-54 bottles of 90 NDC 88582-414-74 bottles of 500

MDC 66582-414-28 unit dose packages of 100.

Shore at 25°C (77°F); excursions permitted to 15-30°C (59-88°F). [See USP Controlled Room Temperature.] Protect from molecure.

MERCK / Schering-Plough Pharmaceuticals

oruñosio, Morsh Wales, PA 19454, USA Manufactured for ManufaSchering-Photoh Phanes ration, Kenikworth, NJ 07033, USA

REV DO

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